

ISIS-3105

COMPOSITIONS AND METHODS FOR THE DELIVERY OF
OLIGONUCLEOTIDES VIA THE ALIMENTARY CANAL

ABSTRACT

5 methods which enhance the transport of nucleic acids, especially oligonucleotides at various sites in the alimentary canal of an animal. The methods and compositions enhance the transport of oligonucleotides across the mucosa of the alimentary canal via the use of one or more penetration
10 enhancers. The invention features the use of various fatty acids, bile salts, chelating agents and other penetration enhancers, as well as carrier compounds, to enhance the stability of nucleic acids and/or their transport across and/or into cells of the alimentary canal. In one preferred
15 embodiment, the compositions and methods of the invention are utilized to effect the oral delivery of an antisense oligonucleotide to an animal in order to modulate the expression of a gene in the animal for investigative, therapeutic or prophylactic purposes.

09108673-070198